A.F. OUTPUT PENTODE

Pentode intended for use as A.F. power amplifier.

QUICK REFERENCE DATA			
Anode current	I _a 2	4	mA
Transconductance	s 5.	4	mA/V
Amplification factor	$\mu_{ m g2g1}$ 1	7	
Output power	$\mathbf{w}_{\mathbf{o}}^{2231}$	3	W

HEATING: Indirect by A.C. or D.C.; series supply

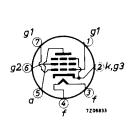
Heater current Heater voltage If 300 mA V_f 4.5 V

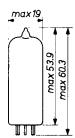
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DIMENSIONS AND CONNECTIONS

Dimensions in mm

Base: miniature 7-pin





CAPACITANCES

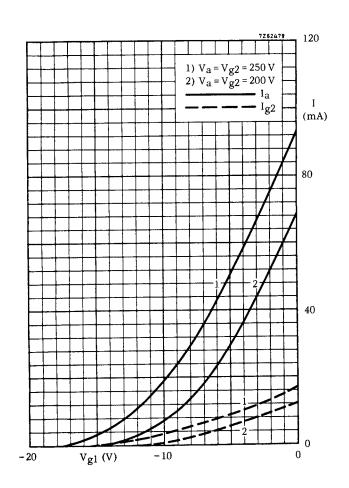
Anode to all except grid No.1	$C_{a(g_1)}$		3.5	pF
Grid No.1 to all except anode	$C_{g1(a)}$		5.3	рF
Anode to grid No.1	C_{ag1}	max.	0.4	pF
Grid No.1 to heater	c_{g1f} -	max.	0.2	pF

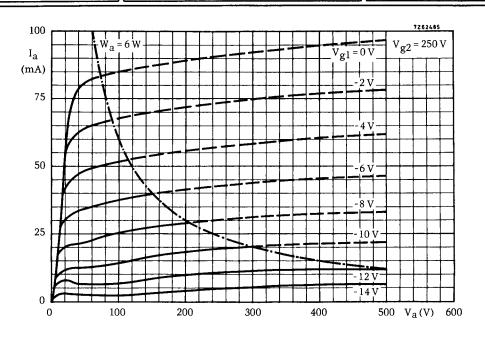
January 1972

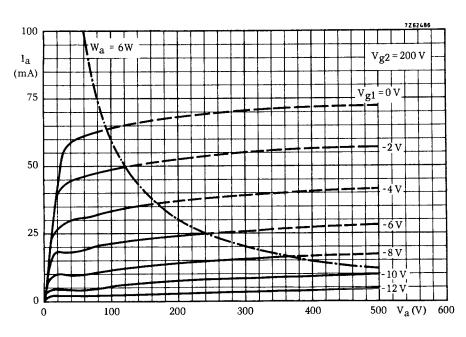
TYPICAL CHARACTERISTICS				
Anode voltage	V_a		250	v
Grid No.2 voltage	v_{g_2}		250	v
Grid No.1 voltage	v_{g_1}		-9.0	v
Anode current	I_a		24	mA
Grid No.2 current	I_{g_2}		4.5	mA
Transconductance	S		5.4	mA/V
Amplification factor	$\mu_{ m g2g1}$		17	
Internal resistance	R_i		70	$\mathbf{k}\Omega$
OPERATING CHARACTERISTICS				
Class A				
Anode voltage	v_a	200	250	v
Grid No.2 voltage	v_{g_2}	200	250	v
Cathode resistor	$R_{\mathbf{k}}$	230	320	Ω
Anode current $(V_i = 0)$	I_a	23	24	mA
Grid No.2 current (V _i = 0)	I_{g_2}	4.2	4.5	mA
Load resistance	Ra ~	8	10	$\mathbf{k}\Omega$
Grid No.1 driving voltage	v_i	4.5	5	v_{RMS}
Output power	$W_{\mathbf{o}}$	2.3	3.0	W
Distortion	d_{tot}	10	10	%
Grid No.1 driving voltage for W _o = 50 mW	v_i	0.50	0.50	v_{RMS}

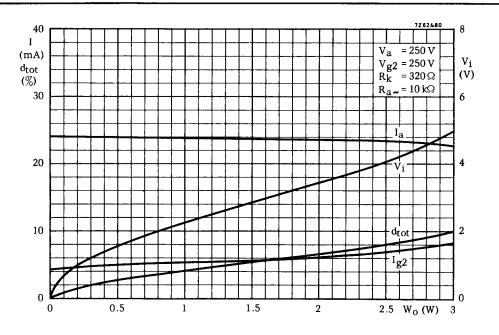
LIMITING VALUES (Design centre rating system)				
Anode voltage	v_{a_0}	max.	550	V
	v_a	max.	300	V
Grid No.2 voltage	v_{g2_o}	max.	550	V
	v_{g_2}	max.	300	V
Anode dissipation	w_a	max.	6	W
Grid No.2 dissipation				
average at $V_i = 0$	w_{g_2}	max.	1.25	W
peak	w_{g2_p}	max.	2.5	W
Cathode current	$I_{\mathbf{k}}$	max.	35	mA
Grid No.1 resistor, automatic bias	R_{g_1}	max.	2.2	$M\Omega$
Cathode to heater voltage	$v_{\mathbf{k}\mathbf{f}}$	max.	200	v

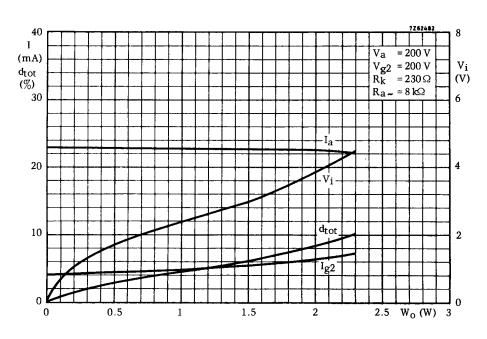
January 1972 3













PL95

page	sheet	date
1	1	1972.01
2	2	1972.01
3	3	1972.01
4	4	1972.01
5	5	1972.01
6	6	1972.01
7	FP	1999.03.19